# **WEST Search History**

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DATE: Monday, January 12, 2004

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|-------|-------------|--|--------------|
|       | DB=F        | PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ   |              |
|       | L4          | L3 and (alicyclic tetracarboxylic dianhydride or ?cyclobutane tetracarboxylic dianhdyride or ?naphthalene succinic dianhydride or ?tricarboxynorbornane adj5 dianhydride or bicyclo adj5 octane tetracarboxylic dianhydride) | . 1          |
|       | L3          | diaminobenzene derivative and polyimide and (liquid crystal alignment film or layer)   | 22           |
|       | DB=J        | PAB; PLUR=YES; OP=ADJ  |              |
|       | L2          | L1 and polyimide   | 23           |
|       | L1          | diaminobenzene   | 159          |

END OF SEARCH HISTORY

### **Hit List**

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: JP 2001072770 A

L4: Entry 1 of 1

File: JPAB

Mar 21, 2001

PUB-NO: JP02001072770A

DOCUMENT-IDENTIFIER: JP 2001072770 A

TITLE: DIAMINOBENZENE DERIVATIVE, AND POLYIMIDE AND LIQUID CRYSTAL ALIGNMENT FILM

PREPARED BY USING SAME

PUBN-DATE: March 21, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

HOSAKA, KAZUYOSHI

NAWATA, HIDEYUKI

NIHEI, TAKAYASU

ISOGAI, HIDEYUKI

ENDO, HIDEYUKI

TAI, HIROYOSHI

INT-CL (IPC):  $\underline{\text{CO8}}$   $\underline{\text{G}}$   $\underline{73/10}$ ;  $\underline{\text{CO7}}$   $\underline{\text{C}}$   $\underline{217/90}$ ;  $\underline{\text{CO7}}$   $\underline{\text{C}}$   $\underline{237/40}$ ;  $\underline{\text{GO2}}$   $\underline{\text{F}}$   $\underline{1/1337}$ 

| Generate Collection: Print Fwd Refs | Bkwd Refs Generate |
|-------------------------------------|--------------------|
|                                     |                    |
| Term                                | Documents          |
| ALICYCLIC                           | 58419              |
| ALICYCLICS                          | 369                |
| TETRACARBOXYLIC                     | 15977              |
| TETRACARBOXYLICS                    |                    |
| DIANHYDRIDE                         | 15695              |
| DIANHYDRIDES                        | 4148               |
| DIANHDYRIDE                         | 17                 |
| DIANHDYRIDES                        |                    |

| SUCCINIC   | 87129 |
|--|-------|
| SUCCINICS  | 22    |
| BICYCLO  | 10933 |
| (L3 AND (ALICYCLIC TETRACARBOXYLIC DIANHYDRIDE OR ?CYCLOBUTANE TETRACARBOXYLIC DIANHDYRIDE OR ?NAPHTHALENE SUCCINIC DIANHYDRIDE OR ?TRICARBOXYNORBORNANE ADJ5 DIANHYDRIDE OR BICYCLO ADJ5 OCTANE TETRACARBOXYLIC DIANHYDRIDE)).PGPB,USPT,EPAB,JPAB,DWPI. | 1     |

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#### Search Results - Record(s) 1 through 10 of 22 returned.

☐ 1. Document ID: US 20030050407 A1

L3: Entry 1 of 22

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030050407

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030050407 A1

TITLE: Polyamide acid and polyimide, and optical material

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

RULE-47 COUNTRY CITY STATE NAME JP Osaka Tajiri, Kozo JP Niihari-gun Kuwabara, Masayoshi JP Toride-shi Okumura, Yasunori Toride-shi JP Matsuura, Tohru Tokyo JP Yamada, Noriyoshi

US-CL-CURRENT: 525/420

| Full | Title     | Citation                                | Front   | Review | Classification | Date | Reference | Sequences  | Attachments                             | Claims | KWIC | Drawa Dr |
|------|-----------|---|---------|--------|----------------|------|-----------|--|---|--------|------|----------|
|      |           |   |         |        |                |      | :         |  |   |        |      |          |
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|      | 2. D      | ocume                                   | ent ID: | US 20  | 020197494      | A1   |           |  |   |        |      |          |

PGPUB-DOCUMENT-NUMBER: 20020197494

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020197494 A1

TITLE: Electroluminescent element

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Kido, Junji Kitakatsuragi-gun JP Furusho, Hitoshi Funabashi-shi JP US-CL-CURRENT: <u>428/473.5</u>; <u>257/E51.028</u>, <u>257/E51.051</u>, <u>313/504</u>, <u>313/506</u>, <u>428/690</u>, 428/917

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawt De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
|      |       |          |       |        |                |      |           |           |             |        |      |          |
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☐ 3. Document ID: US 20020142110 A1

L3: Entry 3 of 22

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020142110

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020142110 A1

TITLE: Novel polyimides, process for the preparation thereof and use thereof as alignment films for liquid crystal devices

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

COUNTRY RULE-47 CITY STATE NAME IN Mathew, Jinu Suju Pune IN Pune Vernekar, Subhash Pundlik FR Lyon Mercier, Reges Lyon FR Kerboua, Rachid

US-CL-CURRENT: 428/1.26; 528/342

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw, D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|---------|
|      |       |          |       |        |                |      |           |           |             |        |     |         |
|      |       |          |       |        |                |      |           |           |             |        |     |         |

☐ 4. Document ID: US 20020055610 A1

L3: Entry 4 of 22

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055610

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020055610 A1

TITLE: Novel polyimide compositions and novel acid dianhydrides to be used therein

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Okada, Koji Shiga JP Hara, Shoji Shiga JP

US-CL-CURRENT: 528/314

5. Document ID: US 6642393 B2

L3: Entry 5 of 22

File: USPT

Nov 4, 2003

US-PAT-NO: 6642393

DOCUMENT-IDENTIFIER: US 6642393 B2

TITLE: Acid anhydrides

DATE-ISSUED: November 4, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Okada; Koji Shiga JP Hara; Shoji Shiga JP Nojiri; Hitoshi Shiga JP

US-CL-CURRENT: 549/242

| Full  | Title             | Citation | Front  | Review | Classification   | Date | Reference | MANUFACTAL STATES | apidiging is | Claims | KWIC                                   | Draw | ) e          |
|-------|-------------------|----------|--------|--------|--|------|-----------|-------------------|--------------|--------|--|------|--------------|
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|       | 6.                | Docume   | nt ID: | US 65  | 00913 B2   |      |           |                   |              | •      |  |      |              |
| L3: E | Entry             | 6 of 2   | 22     |        |  | I    | File: US  | PT                |              | Dec    | 31,                                    | 2002 |              |

US-PAT-NO: 6500913

DOCUMENT-IDENTIFIER: US 6500913 B2

TITLE: <u>Polyimides,</u> process for the preparation thereof and use thereof as alignment films for liquid crystal devices

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME Pune IN Mathew; Jinu Suju Vernekar; Subhash Pundlik IN Pune FRMercier; Reges Lyons Kerboua; Rachid Lyons

US-CL-CURRENT: 528/170; 264/299, 264/309, 264/330, 264/331.11, 427/162, 427/164, 427/165, 428/1.1, 428/1.2, 428/1.26, 428/473.5, 528/125, 528/126, 528/128, 528/172, 528/173, 528/176, 528/179, 528/183, 528/185, 528/188, 528/220, 528/229, 528/350, 528/351, 528/353

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Salament | 2013年1016年1293 | Claims | KWIC | Draw, De |
|------|-------|----------|-------|--------|----------------|------|-----------|----------|----------------|--------|------|----------|
|      |       |          |       |        |                |      |           |          |                |        |      |          |
|      |       |          |       |        |                |      |           |          |                |        |      |          |

7. Document ID: US 6350845 B1

L3: Entry 7 of 22

File: USPT

Feb 26, 2002

US-PAT-NO: 6350845

DOCUMENT-IDENTIFIER: US 6350845 B1

TITLE: Polyimide compositions and novel acid dianhydrides to be used therein

DATE-ISSUED: February 26, 2002

INVENTOR-INFORMATION:

| NAME            | CITY  | STATE | ZIP CODE | COUNTRY |
|-----------------|-------|-------|----------|---------|
| Okada; Koji     | Shiga |       |          | JP      |
| Hara; Shoji     | Shiga |       |          | JP      |
| Nojiri; Hitoshi | Shiga |       |          | JP      |

US-CL-CURRENT:  $\underline{528}/\underline{170}$ ;  $\underline{528}/\underline{125}$ ,  $\underline{528}/\underline{126}$ ,  $\underline{528}/\underline{128}$ ,  $\underline{528}/\underline{171}$ ,  $\underline{528}/\underline{172}$ ,  $\underline{528}/\underline{173}$ , 528/174, 528/175, 528/179, 528/183, 528/185, 528/188, 528/220, 528/229, 528/350, 528/353

| Full | Title | Citation | Front  | Review | Classification | Date | Reference | lagranistas entradicionis | Claims | KWIC | Draw, D |
|------|-------|----------|--------|--------|----------------|------|-----------|---------------------------|--------|------|---------|
|      |       |          |        |        |                |      |           |                           | 2      |      |         |
| П    | Q     | Docume   | nt ID: | 119 61 | 11059 A        |      |           |                           |        |      |         |
|      |       | 8 of 2   |        | 03 01  | 11037 A        | T    | rile: US  | ייםי                      | λυσ    | 29.  | 2000    |

US-PAT-NO: 6111059

DOCUMENT-IDENTIFIER: US 6111059 A

TITLE: Diaminobenzene derivatives, polyimides prepared therefrom, and alignment film for liquid crystals

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

ZIP CODE COUNTRY STATE NAME CITY JΡ Nihira; Takayasu Funabashi ĴΡ Funabashi Nawata; Hideyuki JΡ Fukuro; Hiroyoshi Funabashi

US-CL-CURRENT:  $\underline{528}/\underline{353}$ ;  $\underline{428}/\underline{1.26}$ ,  $\underline{428}/\underline{473.5}$ ,  $\underline{528}/\underline{125}$ ,  $\underline{528}/\underline{128}$ ,  $\underline{528}/\underline{171}$ ,  $\underline{528}/\underline{172}$ , 528/173, 528/179, 528/183, 528/185, 528/188, 528/220, 528/229, 528/350

| Full | Title | Citation | Front   | Review | Classification                               | Date                                    | Reference | Aug United | Claims | KWIC | Draw, D |
|------|-------|----------|---------|--------|--|---|-----------|------------|--------|------|---------|
|      |       |          | <b></b> | -      | W. N. C. | *************************************** |           |            |        | Mhr. |         |
|      | 9.    | Docume   | nt ID:  | US 59  | 76649 A                                      |   |           |            |        |      |         |
|      |       | 9 of 2   |         |        |  |   | File: U   |            |        | _    | 1999    |

US-PAT-NO: 5976649

DOCUMENT-IDENTIFIER: US 5976649 A

TITLE: Cellulosic casings which are organometallic solvent seamed

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Kuethe; David F.

Madison

WI

Karman; Vernon D.

Poynette

WI

Abler; Norman C.

Madison

WI

US-CL-CURRENT: 428/35.6; 156/202, 156/203, 156/308.6, 156/319, 428/34.8

Full Title Citation Front Review Classification Date Reference Citation State Claims KMC Draw De

☐ 10. Document ID: US 5874137 A

L3: Entry 10 of 22

File: USPT

Feb 23, 1999

US-PAT-NO: 5874137

DOCUMENT-IDENTIFIER: US 5874137 A

\*\* See image for Certificate of Correction \*\*

TITLE: Organometallic solvent seaming of cellulosic materials

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME

CITY

ZIP CODE STATE

COUNTRY

Abler; Norman C.

Madison

WI

Madison WΙ

Borkiewicz; Zbigniew S.

Lucke; Donald E.

WΙ Madison

US-CL-CURRENT: 428/34.8; 428/35.6, 428/57

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| LIOS   | 11264   |
| (DIAMINOBENZENE DERIVATIVE AND POLYIMIDE AND (LIQUID CRYSTAL ALIGNMENT FILM OR LAYER)).PGPB,USPT,EPAB,JPAB,DWPI. | 22      |

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# PALM INTRANET

Day: Monday Date: 1/12/2004 Time: 01:15:25

# **Inventor Information for 10/018860**

| Inventor Name                           | City   | State/Coun     | itry   |  |  |  |
|---|--|----------------|--|--|--|--|
| HOSAKA, KAZUYOSHL                       | CHIBA  | JAPAN          |  |  |  |  |
| NAWATA, HIDEYUKI                        | CHIBA  | JAPAN          | ·  |  |  |  |
| NIHIRA, TAKAYASU                        | CHIBA  | JAPAN          |  |  |  |  |
| <u>ISOGAI, HIDEYUKI</u>                 | CHIBA  | JAPAN          |  |  |  |  |
| ENDOU, HIDEYUKI                         | CHIBA  | JAPAN          | The state of the s |  |  |  |
| FUKURO, HIROYOSHI                       | CHIBA  | JAPAN          |  |  |  |  |
| Appln Info Contents Petition Info Atty/ | Agent Info Co  | ontinuity Data | Foreign Data   |  |  |  |
| Search Another: Application#            | Search or l  | Patent#        | Search   |  |  |  |
| PCT / Search or PG PUBS # Search        |  |                |  |  |  |  |
| D 1 4                                   | nyangani sacranako koka mada majala salah saka sakakoka koka koka koka koka koka | Search         | ,  |  |  |  |
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# \_\_\_\_ (# \_\_\_\_ PALM INTRANET

Day: Monday Date: 1/12/2004 Time: 01:15:31

#### **Inventor Name Search Result**

Your Search was:

Last Name = HOSAKA First Name = KAZUYOSHI

| Application# | Patent#    | Status | Date Filed | Title   | Inventor Name 5       |
|--------------|------------|--------|------------|---|-----------------------|
| 10450843     | Not Issued | 020    | 06/26/2003 | DIAMINOBENZENE DERIVATIVE, POLYIMIDE PRECURSOR AND POLYIMIDE EMPLOYING IT AND TREATING AGENT FOR LIQUID CRYSTAL ALIGNMENT | HOSAKA,<br>KAZUYOSHI  |
| 10450841     | Not Issued | 020    | 06/26/2003 | DIAMINES, POLYIMIDE PRECURSORS AND POLYIMIDES PRODUCED BY USING THE DIAMINES, AND LIQUID CRYSTAL ALIGNING AGENTS          | HOSAKA,<br>KAZUYOSHI  |
| 10018860     | Not Issued | 071    | 12/26/2001 |   | HOSAKA,<br>KAZUYOSHI  |
| 09106848     | 6084151    | 150    | 06/30/1998 | METHOD OF PRODUCING A<br>MINI-POTATO  | HOSAKA ,<br>KAZUYOSHI |
| 06601832     | 4921537    | 150    | 04/19/1984 | SHRINKAGE<br>COMPENSATED MORTAR<br>MATERIAL   | HOSAKA ,<br>KAZUYOSHI |

Inventor Search Completed: No Records to Display.

|                 | Last Name | First Name |  |
|-----------------|-----------|------------|--|
| Search Another: | HOSAKA    | KAZUYOSHI  |  |
| Inventor        |           | Search     |  |

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# PALM INTRANET

Day: Monday Date: 1/12/2004 Time: 01:16:05

#### **Inventor Name Search Result**

Your Search was:

Last Name = NAWATA First Name = HIDEYUKI

| Application# | Patent#    | Status | Date Filed | Title   | Inventor Name 5     |
|--------------|------------|--------|------------|---|---------------------|
|              | Not Issued |        | 06/26/2003 | DIAMINOBENZENE DERIVATIVE, POLYIMIDE PRECURSOR AND POLYIMIDE EMPLOYING IT AND TREATING AGENT FOR LIQUID CRYSTAL ALIGNMENT | NAWATA,<br>HIDEYUKI |
| 10450841     | Not Issued | 020    | 06/26/2003 | DIAMINES, POLYIMIDE PRECURSORS AND POLYIMIDES PRODUCED BY USING THE DIAMINES, AND LIQUID CRYSTAL ALIGNING AGENTS          | NAWATA,<br>HIDEYUKI |
| 10018860     | Not Issued | 071    | 12/26/2001 | DIAMINOBENZENE DERIVATIVE, POLYIMIDE OBTAINED THEREFROM, AND LIQUID-CRYSTAL ALIGNMENT FILM                                | NAWATA,<br>HIDEYUKI |
| 09554622     | 6294639    | 150    | 06/02/2000 | LIQUID CRYSTAL ALIGNING<br>AGENT  | NAWATA,<br>HIDEYUKI |
| 09125043     | 6111059    | 150    | 08/12/1998 | DIAMINOBENZENE DERIVATIVES, POLYIMIDES PREPARED THEREFROM, AND ALIGNMENT FILM FOR LIQUID CRYSTALS                         | NAWATA,<br>HIDEYUKI |

Inventor Search Completed: No Records to Display.

|                 | Last Name | First Name |         |
|-----------------|-----------|------------|---------|
| Search Another: | NAWATA    | HIDEYUKI   | emente. |
| Inventor        |           | Search     |         |

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# PALM INTRANET

Day: Monday Date: 1/12/2004 Time: 01:16:52

### **Inventor Name Search Result**

Your Search was:

Last Name = ISOGAI First Name = HIDEYUKI

| Application# | Patent#    | Status | Date Filed | Title  | Inventor Name 3      |
|--------------|------------|--------|------------|--|----------------------|
| 10018860     | Not Issued | 071    | 12/26/2001 | DIAMINOBENZENE DERIVATIVE, POLYIMIDE OBTAINED THEREFROM, AND LIQUID-CRYSTAL ALIGNMENT FILM | ISOGAI,<br>HIDEYUKI  |
| 08076646     | 5420233    | 150    | 06/15/1993 | AGENT FOR VERTICAL ORIENTATION TREATMENT   | ISOGAI ,<br>HIDEYUKI |
| 07929012     | 5298590    | 150    | 08/13/1992 | NOVEL LIQUID CRYSTAL<br>ALIGNMENT TREATING<br>AGENT  | ISOGAI ,<br>HIDEYUKI |

Inventor Search Completed: No Records to Display.

|                 | Last Name | First Name |   |
|-----------------|-----------|------------|---|
| Search Another: | ISOGAI    | HIDEYUKI   | Matter 661 - reverse auto-au-coccasientes |
| Inventor        |           | Search     |   |

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# PALM INTRANET

Day: Monday Date: 1/12/2004 Time: 01:17:03

#### **Inventor Name Search Result**

Your Search was:

Last Name = FUKURO First Name = HIROYOSHI

| Application#    | Patent#    | Status | Date Filed | Title  | Inventor Name<br>25  |
|-----------------|------------|--------|------------|--|----------------------|
| 10451363        | Not Issued | 020    | 06/30/2003 | METHOD FOR PATTERNING<br>ELECTROCONDUCTIVE TIN<br>OXIDE FILM   | FUKURO,<br>HIROYOSHI |
| 10148396        | 6677099    | 150    | 05/30/2002 | POSITIVE TYPE PHOTOSENSITIVE POLYIMIDE RESIN COMPOSITION   | FUKURO,<br>HIROYOSHI |
| 10018860        | Not Issued | 071    | 12/26/2001 | DIAMINOBENZENE DERIVATIVE, POLYIMIDE OBTAINED THEREFROM, AND LIQUID-CRYSTAL ALIGNMENT FILM   | FUKURO,<br>HIROYOSHI |
| <u>09914207</u> | 6632545    | 150    | 08/23/2001 | ELECTROLUMINESCENT<br>ELEMENT  | FUKURO,<br>HIROYOSHI |
| <u>09914076</u> | 6632544    | 150    | 08/23/2001 | AROMATIC AMINE DERIVATIVE, SOLUBLE CONDUCTIVE COMPOUND, AND ELECTROLUMINESCENT ELEMENT   | FUKURO,<br>HIROYOSHI |
| <u>09806487</u> | 6489431    | 150    | 04/12/2001 | POLYIMIDE PRECURSORS AND POLYIMIDES  | FUKURO,<br>HIROYOSHI |
| 09763294        | Not Issued | 071    | 02/21/2001 | A LIQUID CRYSTAL ALIGNMENT AGENT AND LIQUID CRYSTAL DEVICE USING THE LIQUID CRYSTAL ALIGNMENT AND METHOD FOR ALIGNMENT OF LIQUID CRYSTAL MOLECULES | FUKURO,<br>HIROYOSHI |
| 09725478        | 6472012    | 150    | 11/30/2000 | ·  | FUKURO,<br>HIROYOSHI |
| <u>09403766</u> | 6274695    | 150    | 11/01/1999 | 1  | FUKURO,<br>HIROYOSHI |
| 09341118        | 6139917    | 150    | 07/08/1999 | LIQUID CRYSTAL ALIGNING  | FUKURO,              |

| The state of the s | -          |       |            | AGENT   | HIROYOSHI             |
|--|------------|-------|------------|---|-----------------------|
| 09176024   | 5954999    | 150   | 10/21/1998 | TREATING AGENT FOR LIQUID CRYSTAL ALIGNMENT   | FUKURO ,<br>HIROYOSHI |
| 09147498   | 6120702    | 150   | 01/11/1999 | ALIGNING AGENT FOR LIQUID-CRYSTAL CELLS   | FUKURO ,<br>HIROYOSHI |
| 09142049   | 6063829    | 150 . | 09/04/1998 | METHOD FOR LIQUID<br>CRYSTAL ALIGNMENT  | FUKURO ,<br>HIROYOSHI |
| 09125043   | 6111059    | 150   | 08/12/1998 | DIAMINOBENZENE DERIVATIVES, POLYIMIDES PREPARED THEREFROM, AND ALIGNMENT FILM FOR LIQUID CRYSTALS       | FUKURO,<br>HIROYOSHI  |
| 08987156   | 5916632    | 150   | 12/08/1997 | POLYIMIDE VARNISH   | FUKURO ,<br>HIROYOSHI |
| 08875929   | 5858274    | 150   | 08/13/1997 | TREATING AGENT FOR LIQUID CRYSTAL ALIGNMENT   | FUKURO,<br>HIROYOSHI  |
| 08288726   | Not Issued | 161   | 08/15/1994 | POLYIMIDE VARNISH   | FUKURO ,<br>HIROYOSHI |
| 08183332   | 6441127    | 150   | 01/19/1994 | ALIGNMENT TREATING<br>AGENT FOR LIQUID CRYSTAL<br>CELL  | FUKURO ,<br>HIROYOSHI |
| 07929012   | 5298590    | 150   | 08/13/1992 | NOVEL LIQUID CRYSTAL<br>ALIGNMENT TREATING<br>AGENT   | FUKURO ,<br>HIROYOSHI |
| 07853583   | 5153304    | 150   | 03/18/1992 | FLUORINE CONTAINING<br>DIAMINOBENZENE<br>DERIVATIVES AND ITS USE  | FUKURO ,<br>HIROYOSHI |
| 07676555   | 5144078    | 150   | 03/28/1991 | FLUORINE CONTAINING<br>DIAMINOBENZENE<br>DERIVATIVES AND ITS USE  | FUKURO,<br>HIROYOSHI  |
| 07431392   | 5111318    | 150   | 11/03/1989 | FERROELECTRIC LIQUID<br>CRYSTAL ELEMENT   | FUKURO ,<br>HIROYOSHI |
| 07334571   | 4929658    | 150   | 04/07/1989 | COMPOSITION FOR LIQUID<br>CRYSTAL ALIGNING AGENT  | FUKURO ,<br>HIROYOSHI |
| 07239336   | RE33342    | 150   | 09/01/1988 | LIQUID CRYSTAL ALIGNING<br>AGENT FROM<br>TETRACARBOXYLIC ACID<br>DIANHYDRIDE, DIAMINE AND<br>MONOAMINE  | FUKURO ,<br>HIROYOSHI |
| 07060515   | 4749777    | 150   | 06/11/1987 | LIQUID CRYSTAL ALIGNING<br>AGENT FROM<br>TETRACARBOXYLIC ACID<br>DIANHYDRIDE, DIAMINE AND<br>MONO AMINE | FUKURO ,<br>HIROYOSHI |

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# 2 (5)

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#### **Inventor Name Search Result**

Your Search was:

Last Name = ENDOU First Name = HIDEYUKI

| }            |            |        |            |  |                     |
|--------------|------------|--------|------------|--|---------------------|
| Application# | Patent#    | Status | Date Filed | Title  | Inventor Name 3     |
| 10018860     | Not Issued | 071    | 12/26/2001 | DIAMINOBENZENE<br>DERIVATIVE, POLYIMIDE<br>OBTAINED THEREFROM,<br>AND LIQUID-CRYSTAL<br>ALIGNMENT FILM | ENDOU,<br>HIDEYUKI  |
| 09403766     | 6274695    | 150    | 11/01/1999 | ALIGNING AGENT FOR<br>LIQUID CRYSTAL   | ENDOU ,<br>HIDEYUKI |
| 09142049     | 6063829    | 150    | 09/04/1998 | METHOD FOR LIQUID<br>CRYSTAL ALIGNMENT   | ENDOU ,<br>HIDEYUKI |

Inventor Search Completed: No Records to Display.

|                 | Last Name | First Name |
|-----------------|-----------|------------|
| Search Another: | ENDOU     | HIDEYUKI   |
| Inventor        |           | Search     |

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### **Inventor Name Search Result**

Your Search was:

Last Name = NIHIRA

First Name = TAKAYASU

| Application#    | Patent#        | Status | Date Filed | Title   | Inventor Name 19    |
|-----------------|----------------|--------|------------|---|---------------------|
| 10657436        | Not Issued     | 020    | 09/08/2003 | PHOTOSENSITIVE BLACK<br>MATRIX  | NIHIRA,<br>TAKAYASU |
| 10450843        | Not Issued     | 020    | 06/26/2003 | DIAMINOBENZENE DERIVATIVE, POLYIMIDE PRECURSOR AND POLYIMIDE EMPLOYING IT AND TREATING AGENT FOR LIQUID CRYSTAL ALIGNMENT | NIHIRA,<br>TAKAYASU |
| 10381736        | Not Issued     | 020    | 04/03/2003 | POSITIVE PHOTOSENSITIVE POLYIMIDE RESIN COMPOSITION   | NIHIRA,<br>TAKAYASU |
| 10277654        | Not Issued     | 161    | 10/21/2002 | PHOTOSENSITIVE BLACK<br>MATRIX  | NIHIRA,<br>TAKAYASU |
| 10178165        | Not Issued     | 161    | 09/05/2001 | PHOTOSENSITIVE BLACK<br>MATRIX  | NIHIRA,<br>TAKAYASU |
| 10148396        | 6677099        | 150    | 05/30/2002 | POSITIVE TYPE PHOTOSENSITIVE POLYIMIDE RESIN COMPOSITION  | NIHIRA,<br>TAKAYASU |
| 10018860        | Not Issued     | 071    | 12/26/2001 | DIAMINOBENZENE DERIVATIVE, POLYIMIDE OBTAINED THEREFROM, AND LIQUID-CRYSTAL ALIGNMENT FILM                                | NIHIRA,<br>TAKAYASU |
| <u>09806487</u> | <u>6489431</u> | 150    | 04/12/2001 | POLYIMIDE PRECURSORS<br>AND POLYIMIDES  | NIHIRA,<br>TAKAYASU |
| 09786443        | 6365771        | 150    | 03/14/2001 |   | NIHIRA,<br>TAKAYASU |
| 09763294        | Not Issued     | 071    | 02/21/2001 | A LIQUID CRYSTAL ALIGNMENT AGENT AND LIQUID CRYSTAL DEVICE USING THE LIQUID CRYSTAL ALIGNMENT AND                         | NIHIRA,<br>TAKAYASU |

|          |            |     |            | METHOD FOR ALIGNMENT<br>OF LIQUID CRYSTAL<br>MOLECULES  |                      |
|----------|------------|-----|------------|---|----------------------|
| 09670435 | Not Issued | 161 | 09/26/2000 | PHOTOSENSITIVE BLACK<br>MATRIX  | NIHIRA,<br>TAKAYASU  |
| 09655463 | Not Issued | 161 | 08/31/2000 | 1   | NIHIRA,<br>TAKAYASU  |
| 09554622 | 6294639    | 150 | 06/02/2000 | LIQUID CRYSTAL ALIGNING<br>AGENT  | NIHIRA,<br>TAKAYASU  |
| 09403766 | 6274695    | 150 | 11/01/1999 | ALIGNING AGENT FOR<br>LIQUID CRYSTAL  | NIHIRA ,<br>TAKAYASU |
| 09125043 | 6111059    | 150 | 08/12/1998 | DIAMINOBENZENE DERIVATIVES, POLYIMIDES PREPARED THEREFROM, AND ALIGNMENT FILM FOR LIQUID CRYSTALS | NIHIRA ,<br>TAKAYASU |
| 09115142 | Not Issued | 161 | 07/14/1998 | PHOTOSENSITIVE BLACK<br>MATRIX  | NIHIRA ,<br>TAKAYASU |
| 08711786 | 5861534    | 150 | 09/10/1996 | DIAMINOBENZENE<br>DERIVATIVES AND<br>POLYIMIDES PREPARED<br>THEREFROM                             | NIHIRA ,<br>TAKAYASU |
| 08435663 | 5608033    | 150 | 05/05/1995 | LIQUID CRYSTAL<br>ALIGNMENT FILM  | NIHIRA ,<br>TAKAYASU |
| 08428365 | 5665856    | 150 | 04/25/1995 | DIAMINOBENZENE<br>DERIVATIVES AND<br>POLYIMIDES PREPARED<br>THEREFROM                             | NIHIRA ,<br>TAKAYASU |

Inventor Search Completed: No Records to Display.

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